

SEPARATOR SYSTEM SPECIFICATIONS

(38 – 1200 GPM)

WSS050400.A 12/17



DESCRIPTION

1.0) **SEPARATOR SYSTEM:** Shall be designed for side stream or basin cleaning applications. System shall be completely factory assembled with solids separator, centrifugal pump and fabricated carbon steel pre-strainer, fabricated carbon steel solid removal chamber, NEMA 4 control panel, carbon steel skid and all metallic plumbing assembly. Standard and optional features shall be as listed below. Use table below to determine separator model:

- | | |
|--|-------------|
| <input type="checkbox"/> 38 GPM @ 90TDH | Use CT-0038 |
| <input type="checkbox"/> 65 GPM @ 90TDH | Use CT-0065 |
| <input type="checkbox"/> 100 GPM @ 90TDH | Use CT-0100 |
| <input type="checkbox"/> 160 GPM @ 90TDH | Use CT-0160 |
| <input type="checkbox"/> 200 GPM @ 90TDH | Use CT-0200 |
| <input type="checkbox"/> 280 GPM @ 90TDH | Use CT-0280 |
| <input type="checkbox"/> 450 GPM @ 90TDH | Use CT-0450 |
| <input type="checkbox"/> 550 GPM @ 90TDH | Use CT-0550 |
| <input type="checkbox"/> 850 GPM @ 90TDH | Use CT-0850 |
| <input type="checkbox"/> 1,200 GPM @ 90TDH | Use CT-1200 |

MATERIALS

2.0) **BODY:** Separator body shall be sized according to connection fittings:

- 1" separators will be supplied with Schedule 40 pipe bodies. (CT-0038)
- 1 1/2" to 3" separators will be supplied with .104 thick bodies (CT-0065 through CT-0280)
- 4" to 6" separator shall have a body that is a minimum of 3/16" thick. (CT-0450 through CT-1200)

2.1) **HEADS:** All heads supplied will be ASME code semi-elliptical heads and be sized according to connection fittings:

- 1" separators will be supplied with four 6" diameter SA414G .105" thick SE heads. (CT-0038)
- 1 1/2" separators will be supplied with two 6" diameter SA414G .105" thick SE heads. (CT-0065, CT-0100)
- 2 1/2" separators will be supplied with two 10" diameter SA414G .105" thick SE heads and one 6" diameter SA414G .105" thick SE Head. (CT-0160)
- 3" separators will be supplied with two 10" diameter SA414G .105" SE heads. (CT-0200, CT-0280)
- 4" to 6" separator shall have two SE heads that are a minimum of 3/16" thick. (CT-0450 through CT-1200)

2.2) **FEATURES:**

- 1" separators shall incorporate center inlet with internal vortex creator, inlet flow acceptance chamber, reduced diameter vortex accelerator chamber, solid collection chamber and spin trap plate with schedule 40 vortex locator. (CT-0038)
- 1 1/2" separators shall incorporate center inlet with internal vortex creator, vortex chamber, and solid collection chamber and spin trap plate with schedule 40 vortex locator. (CT-0065, CT-0100)
- 2 1/2" separators shall incorporate center inlet with internal vortex creator, inlet flow acceptance chamber, reduced diameter vortex accelerator chamber, solid collection chamber and spin trap plate with schedule 40 vortex locator. (CT-0160)
- 3" and larger separators shall incorporate tangential inlet with internal vortex accelerator, vortex chamber, and solid collection chamber and spin trap plate with schedule 40 vortex locator. (CT-0200 through CT-1200)

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- 2.3) **PURGE PACKAGES:** Shall be supplied complete with purge package as recommended by manufacturer: (check one)
- STANDARD CONTINUAL PURGE PACKAGE:** Shall be complete with carbon steel epoxy coated solids removal vessel with inlet and outlet isolation valves, 3 GPM brass flow control valve, loss of flow detection switch, 25 micron NP filter and 304 stainless steel perforated support basket with stainless steel easy removal handles and 3/16" perforations. Lid shall have 1/4" FNPT air release valve.
 - OPTIONAL TIMED PURGE PACKAGE:** Shall be complete with NEMA 4 control panel, 0-99:59 hours purge cycle, 0-9999 second purge duration, brass 8 second motorized purge valve, isolation ball valve, black iron street elbow, extension nipple and manual isolation 400 WOG ball valve.
- 2.4) **PUMP AND PRE-STRAINER:** Centrifugal pump shall come with TEFC motor, 230/460 volts, 3 phase, 60 hertz. Pump and motor shall be close coupled with all needed coupling guards. Pump head shall be cast iron with cast iron impeller and have a buna lip seal. Pump pre-strainer shall be fabricated carbon steel with internal epoxy coating. Lid shall have 1/4" FNPT air release valve. Perforated basket shall be stainless steel with stainless steel easy removal handles and perforations to be no greater than 3/16". Please note that the standard voltage for CT-0450 to CT-1200 is 460vac, 3 phase, 60 hertz.
- 2.5) **CONTROL PANEL:** NEMA 4 Control panel shall be factory complete with 120 volt panel transformer, motor starter and overload, main power switch, pump hand-off-auto switch and red service indicator light. All components shall be CSA approved and UL listed. Standard supply voltage shall be 230VAC, 3 phase, 60 hertz (460 volts, 3phase, 60 hertz available upon request). Please note that the standard voltage for CT-0450 to CT-1200 is 460vac, 3 phase, 60 hertz.
- 2.6) **SKID:** Carbon steel fabricated skid shall be complete with 4" X 5.4# standard channel frame, 1/4" thick deck, 2" control panel support frame, four corner lifting lugs and forklift slots.
- 2.7) **PLUMBING:** Plumbing shall be complete and not limited to, inlet and outlet isolation valves (standard), inlet and outlet pressure indicators, Sch. 40 pipe pump/separator inlet manifold, steel tube connections for separator purge to recovery tank and back to pump strainer and service isolation valves for recovery tank.
- 2.8) **SEPARATOR INSTALLATION:** Shall be the following installation: (check one)
- FULL STREAM APPLICATION:** Separator shall operate to maximum flow rate of the recirculation system.
 - SIDE STREAM APPLICATION:** Separator shall operate at 10 – 20% of the flow rate of the recirculation system.
- 2.9) **ACCESSORIES:** Separator shall be supplied with the following accessory items to complete installation: (Check all that apply)
- REMOVABLE DOME:** Separator shall be supplied with removable dome to facilitate servicing of separator interior.
 - CLEAN OUT:** Separator shall be supplied with clean out port located at or near the separator spin trap plate. Clean out port will be accessed when cleaning solids collection chamber.
 - AIR RELEASE:** 1/4" NPT air release valve located on the top dome of the separator.
- 3.0) **WARRANTY:** Wingert Separator Sytems are guaranteed for one year from the date of shipment against manufacturing defects in material and workmanship which develop in the service for which they are designed. We will repair or replace defective material when returned to our factory with transportation prepaid: providing that the material is found to be defective upon inspection. We assume no liability for labor and/or other expenses in making repairs or adjustments. All replacements will be F.O.B. factory.